FUJIFILM

35mm camera

ENGLISH

ZOOM DATE120
ZOOM DATE100
ZOOM DATE90

OWNER'S MANUAL

RED-EYE REDUCTION

SURE LOADING SYSTEM

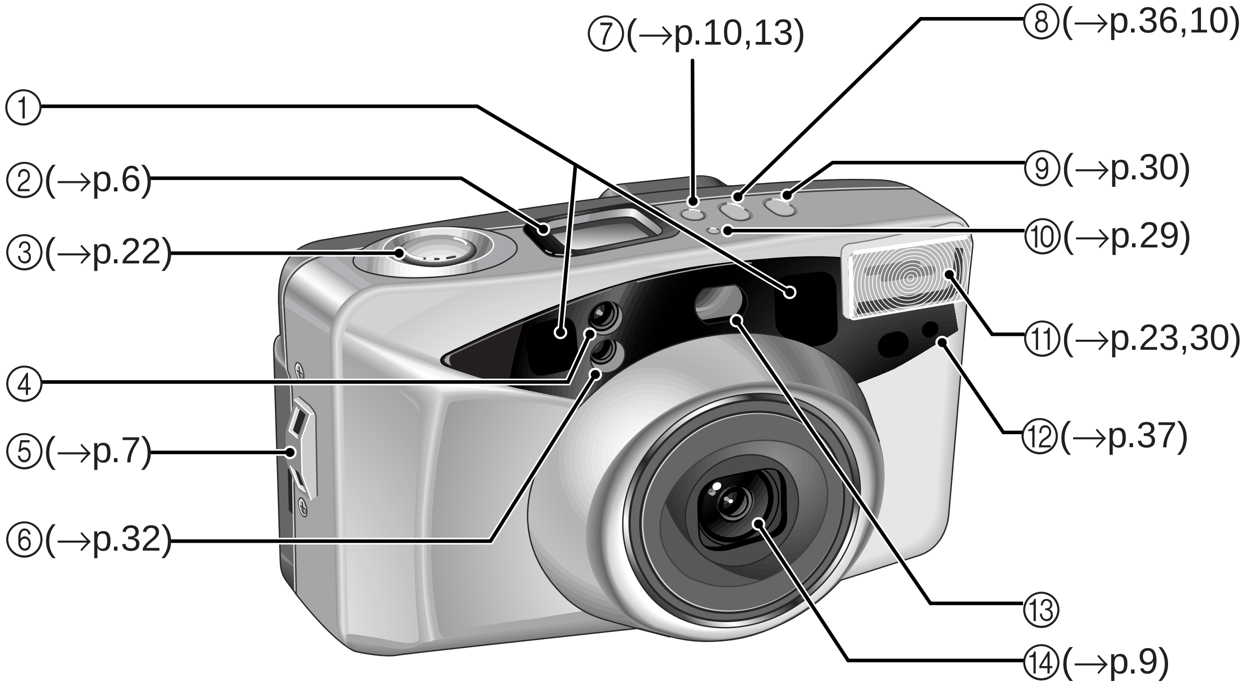
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  Fujinon 38-100mm Auto Focus Zoom Lens (for ZOOM DATE 100)
  Fujinon 38-90mm Auto Focus Zoom Lens (for ZOOM DATE 90)
- Sure-loading System with Automatic Pre-winding
- Automatic Exposure and Flash
- Date/Time Imprinting
- Red Eye Reduction

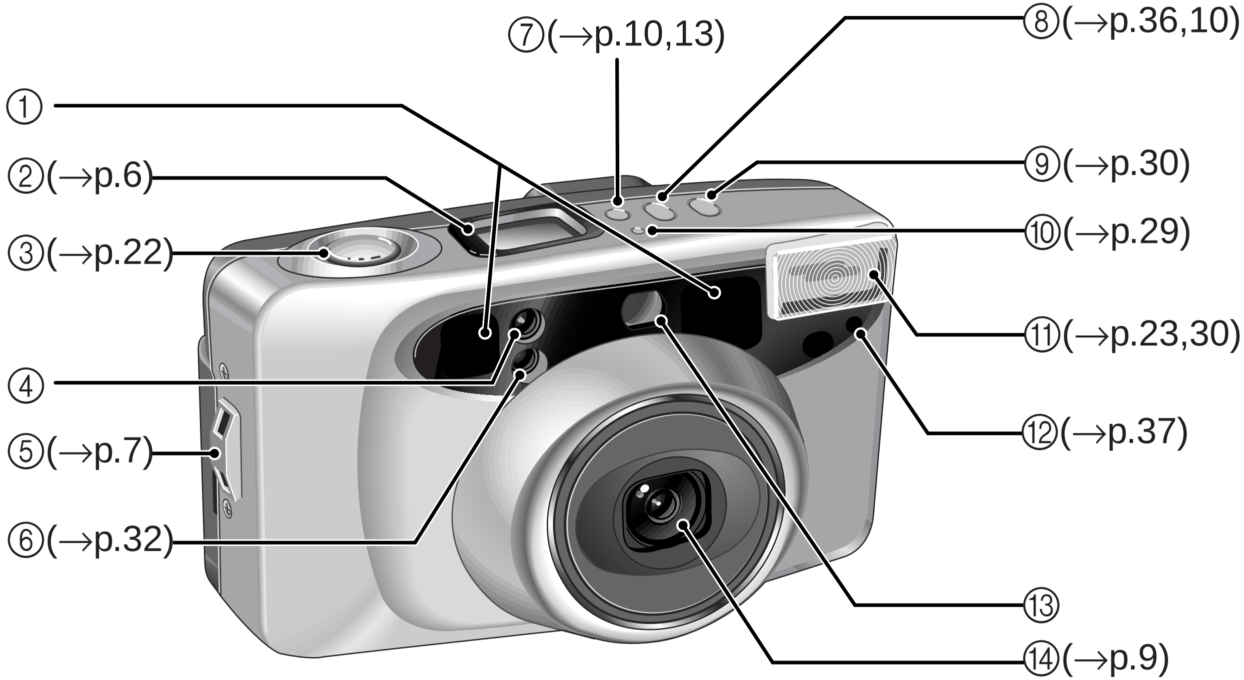
CE	The “CE” mark certifies that this product satisfies the requirements of the EU (European Union) regarding safety, public health, environment and consumer protection.(“CE” is the abbreviation of Conformité Européenne.) This product is in conformity with Directive 89/336/EEC.

ZOOM DATE120

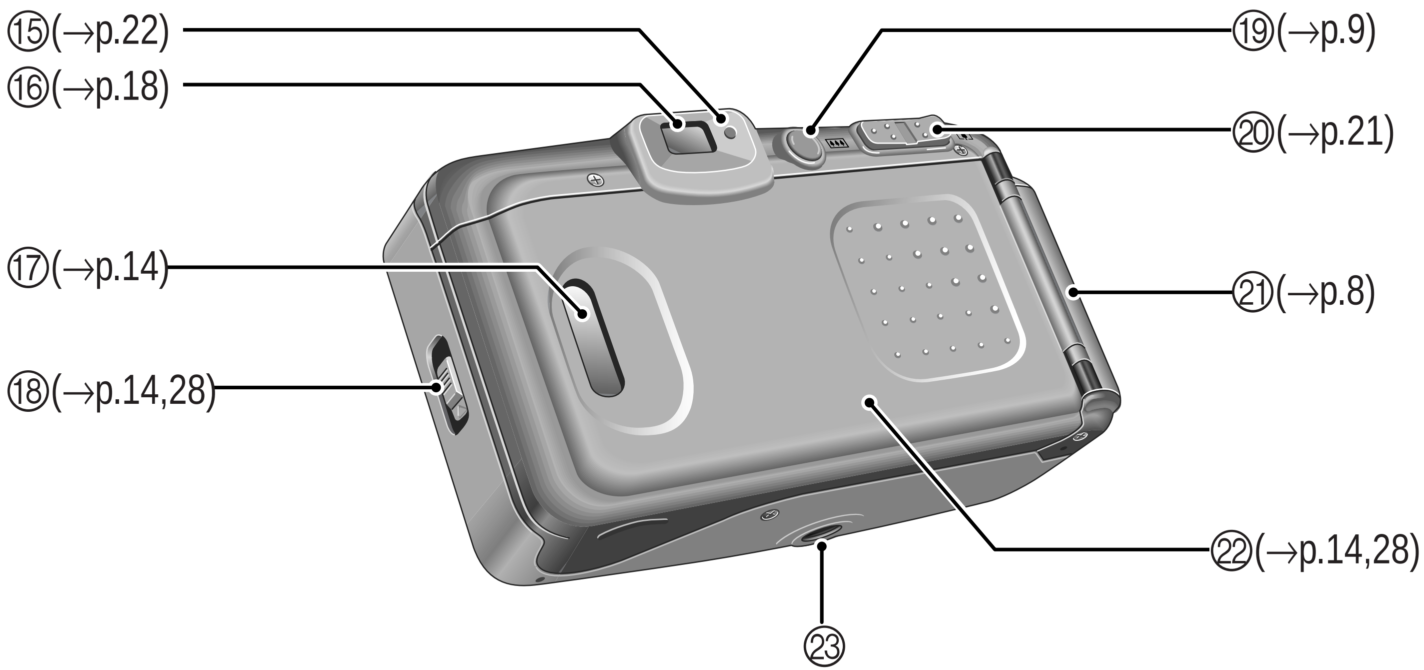


① AF (Autofocus) Window
② Liquid Crystal Display
③ Shutter Release Button
④ AE Light Sensor
⑤ Strap Lug
⑥ Red-eye Reduction Lamp
⑦ DATE Button
⑧ Self-timer/Date Set Button
⑨ MODE Button
⑩ Mid-Roll Rewind Button
⑪ Flash
⑫ Self-Timer Lamp
⑬ Viewfinder Window
⑭ Fujinon Lens/ Lens Cover

ZOOM DATE100/ZOOM DATE90

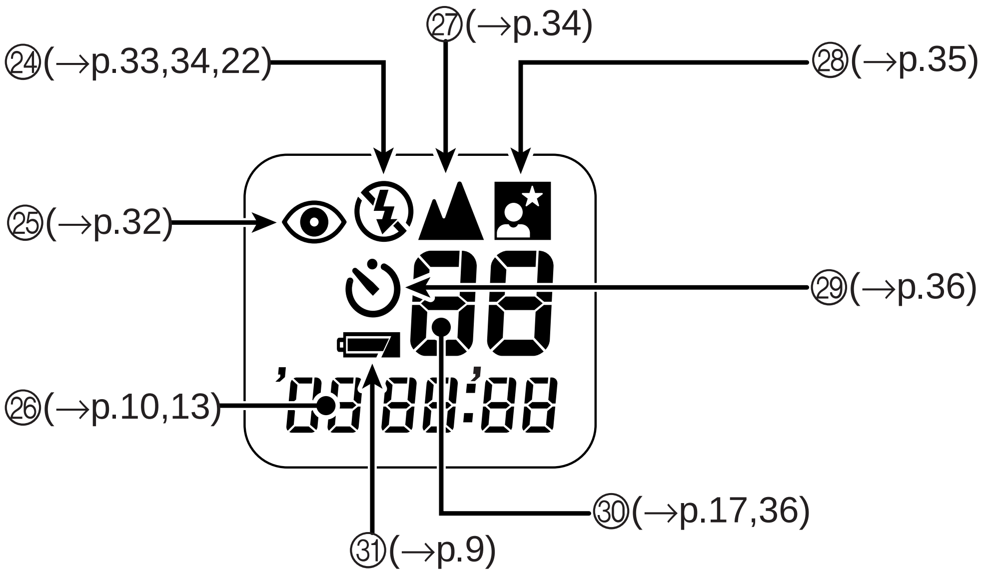


① AF (Autofocus) Window
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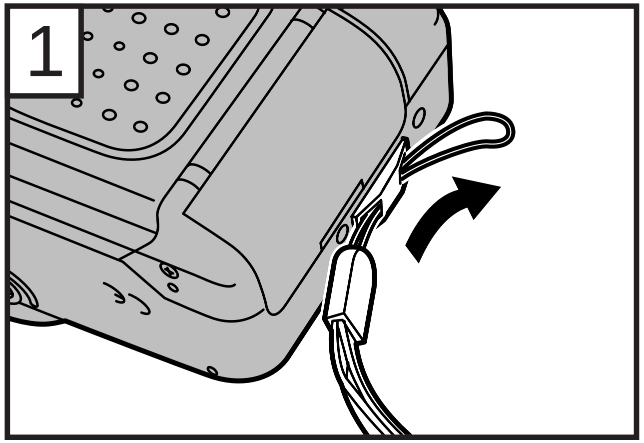


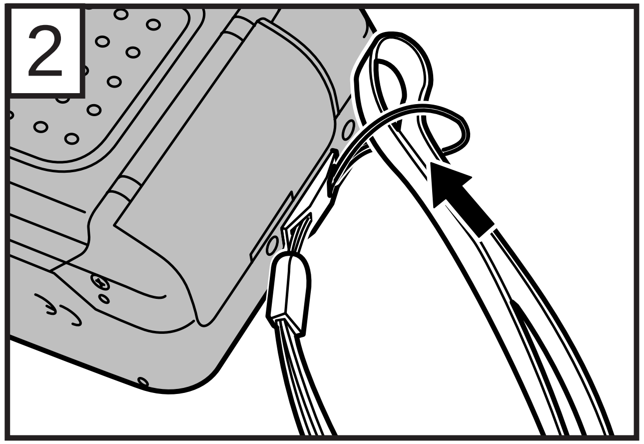
⑮ AF Lamp (green)
⑯ Viewfinder Eye-piece
⑰ Film Confirmation Window
⑱ Camera Back Lock
⑲ Power Button
⑳ Zoom Button
㉑ Battery Compartment Cover
㉒ Camera Back
㉓ Tripod Socket

Liquid Crystal Display



㉔ Fill-in Flash Mode/
Flash off Mode/
Flash Charging
㉕ Red-eye Reduction Flash Mode
㉖ Date Display
㉗ Landscape Mode
㉘ Night Portrait (Slow Sync) Mode
㉙ Self-Timer Mode
㉚ Exposure Counter/Self-timer Count
㉛ Battery Status



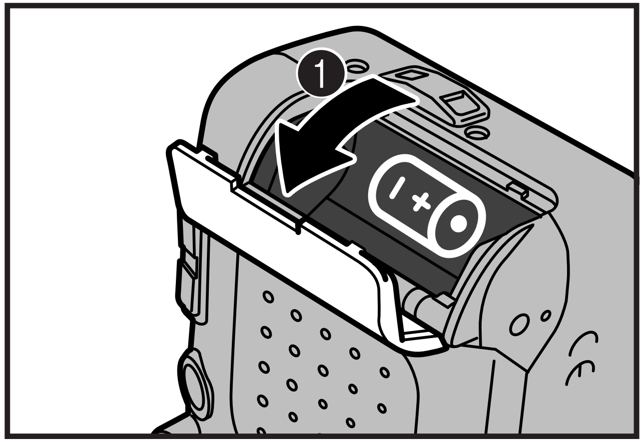


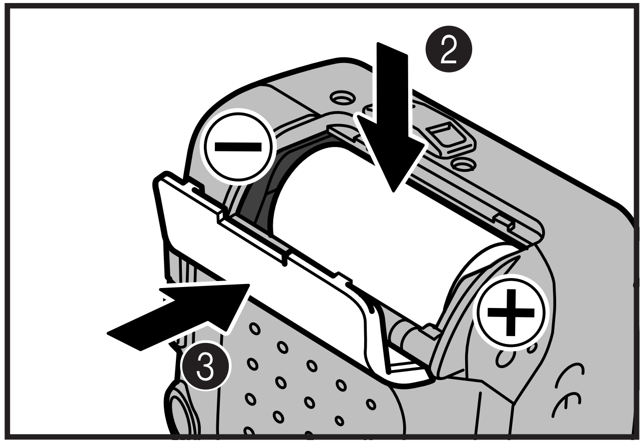
1. PRELIMINARY STEPS

ATTACHING THE STRAP

Slip the thin cord on the carrying strap through the strap lug on the side of the camera leaving a loop. Slide the thick part of the strap through this loop and pull tight. Take up any slack to make sure the strap is securely attached to the camera.

Do not use a strap made for cellular phones or similar electronic products. These straps are usually too light to hold your camera securely. Use straps designed for cameras for safety.





LOADING THE BATTERY

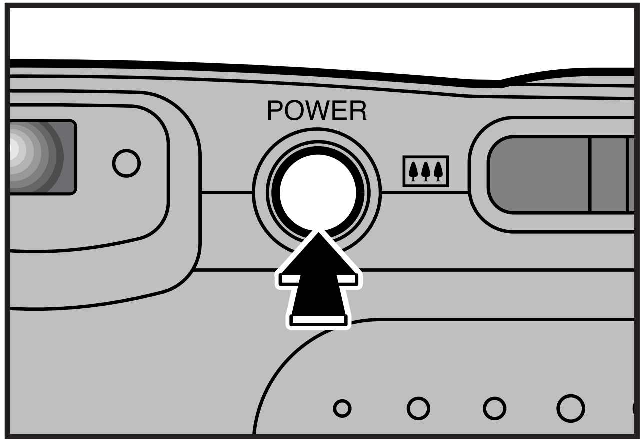
Your camera uses one 3V lithium battery

CR123A/DL 123A or the equivalent.

To load the battery.

1. Open the battery compartment cover by inserting a small tool into the cover slot.
2. Insert the battery following instructions in the diagram on the inside of the battery cover paying particular attention to the position of the ⊕ and ⊖ poles of the battery. The battery must be inserted the right way or the camera will not operate.
3. When battery is inserted properly, close the battery compartment cover snapping it securely.

＊ Do not apply excessive force when opening the battery cover.
＊ One lithium battery should be sufficient for approximately 200 exposures (based on our test conditions).
＊ When traveling, take extra batteries to provide power for extra exposures, particularly important if you visit areas where fresh batteries may be difficult to obtain.
＊ Check the battery capacity symbol before using your camera. (→p.9)
＊ After changing batteries, reset the date to assure accurate date/time recording. (→p.10)
＊ Do not load film before insertng the battery into the camera.



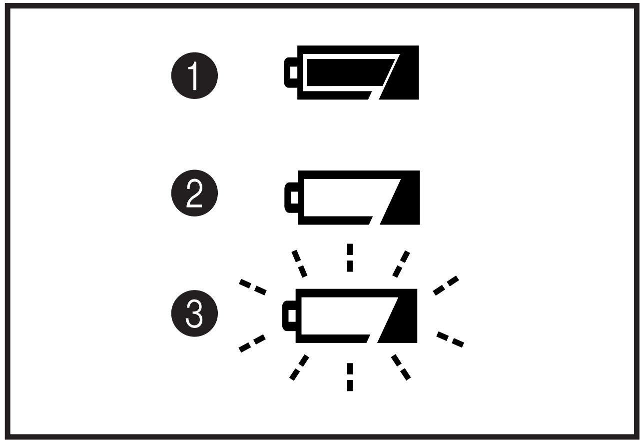
TURNING ON YOUR CAMERA

To prepare to use your camera, first press the power supply button to turn on the power. Pressing the button once more turns the power off.

＊ When you turn your camera on, the lens cover will open and the initial display will appear in the LCD.

＊ When you are finished using your camera, turn the power off to conserve your battery. If the power supply is left on for more than seven minutes without the camera being used, the camera will automatically turn itself off.

Before you turn the camera on, make sure that the lens is not blocked to avoid any interference with the lens extending into its picture taking position.



CHECKING YOUR BATTERY

To determine the condition of the battery in your camera, turn it on and check the battery capacity indicator on the LCD panel.

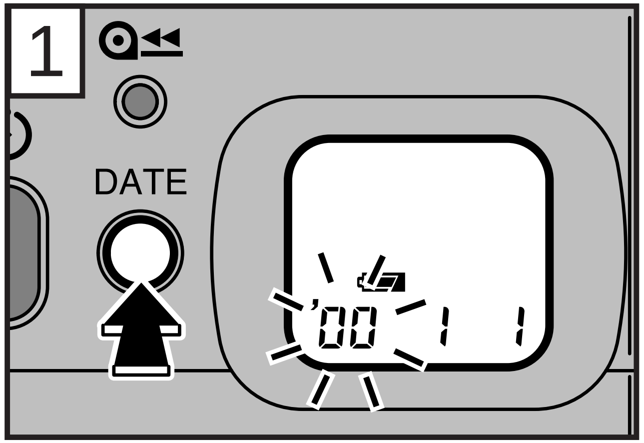
❶on : Battery capacity is OK.

❷on : Battery capacity is low. Replace with a new battery.

❸blink : Shutter cannot be released because battery is exhausted. Replace with a fresh battery.

＊ Check the battery capacity before you start to use your camera.

＊ You can replace your battery even if you have film in your camera.

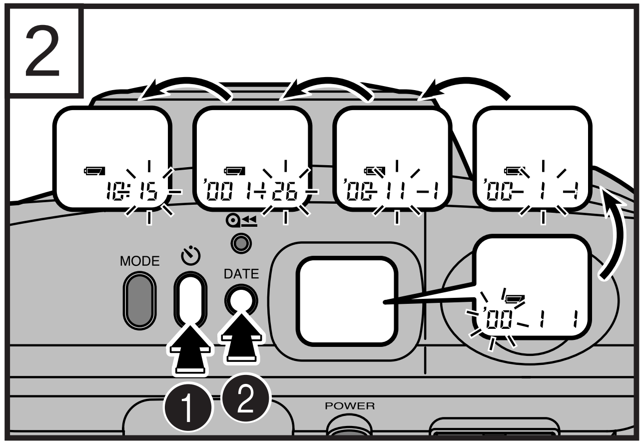


SETTING THE DATE (YEAR-MONTH-DAY/HOUR-MINUTE)

Your camera can imprint the date or the time on your picture when you make your exposure. To set your camera for imprinting, first turn on the power and then hold down the DATE button for at least 2 seconds or longer.

☞ The year signal will blink and the camera will enter the date/time setting mode. You can set:

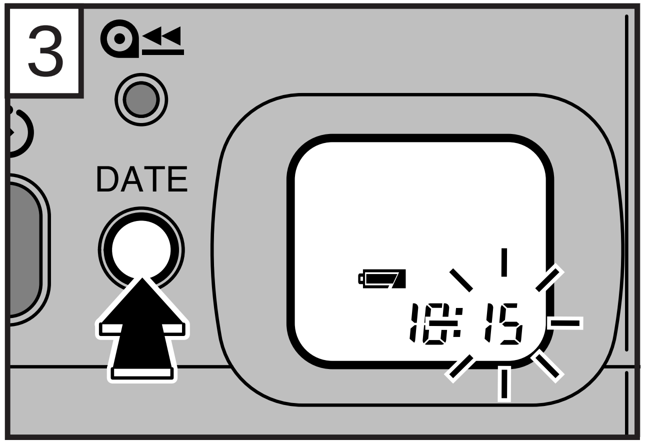
Year : '00 to '30 (2000 to 2030)
Month : 1 to 12   Day : 1 to 31
Time : 0 to 23   hours; 00 to 59 minutes



❶ Press the ⏲ button to change the blinking setting.

❷ Press the DATE button to select the next part of the date/time information.

☞ Each press of the DATE button selects a different element in the date/time information in the following order:
Year→Month→Day→Hours→Minutes



To cancel the date/time setting mode, press the DATE button after changing the minutes.

☞ To set the time (hour or minute) by the radio, press in the DATE button when the time signal indicates zero.

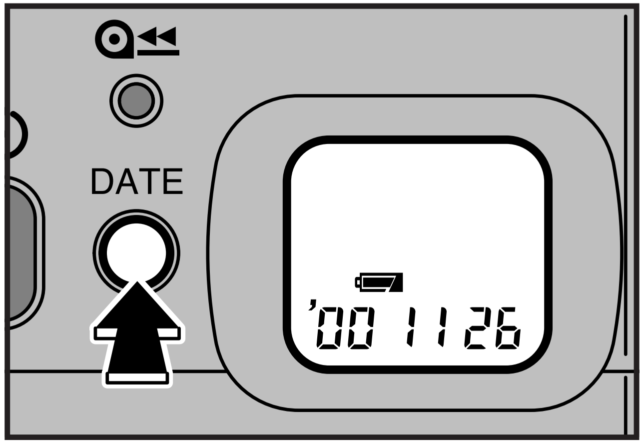
∗ The year, month, and day will change together with the hour and minute.



SELECTING THE DATE MODE

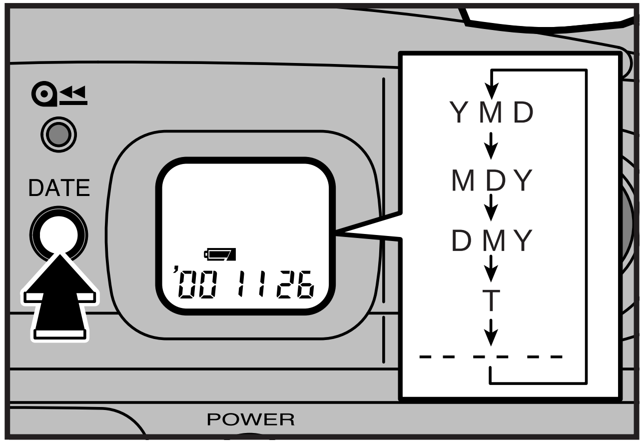
The date and time (year-month-day/ hour-minute) will be imprinted at the lower right of the photograph.

＊ The date display printed on the front of the picture may not be clearly visible against a dark background.



Turn your camera on and then press the DATE button to select the desired date mode.

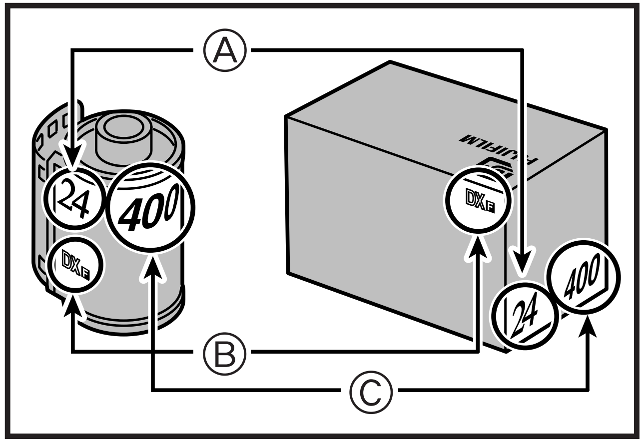
☞ The date and time will be printed based on the mode you select.



Y : Year M : Month D : Day T : Time

The date/time mode changes in the order shown in the illustration.

* If “- - - - - -” is chosen, no date will appear on the photograph.
* After the date and time are corrected, the date/time mode is reset to “YMD”. Change the date/time mode after correcting the date and time.



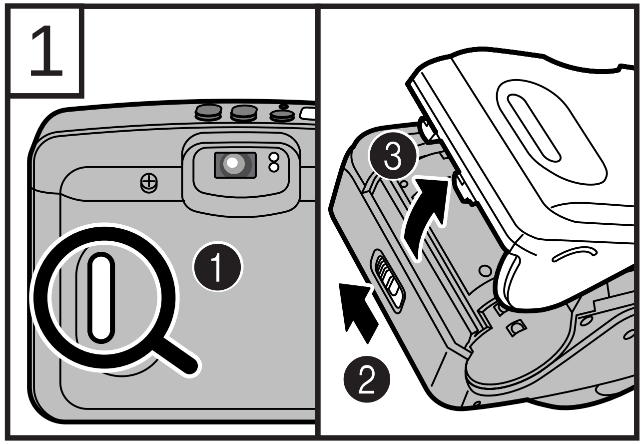
2. USING YOUR CAMERA

LOADING THE CAMERA

Almost all 35mm films that your camera uses will have a DX coding symbol on the film box and on the film cassette itself. Information you will see includes:

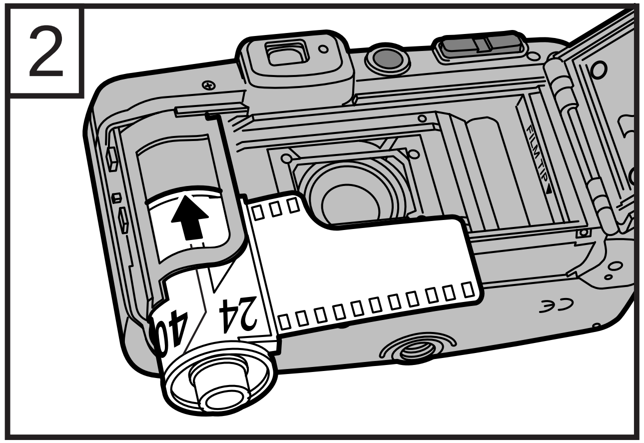
Ⓐ : Number of Exposures
Ⓑ : DX Code symbol
Ⓒ : Film Speed (sensitivity to light or ISO rating)

- If non-DX coded film is used, the camera's automatic exposure system automatically sets itself to ISO 100.
- Always load and remove film from your camera away from direct sunlight.

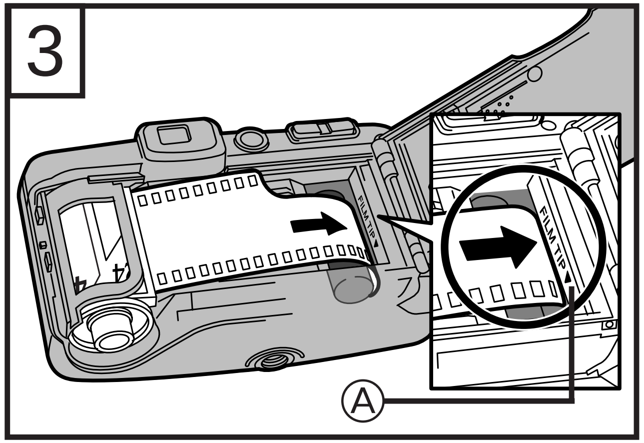


❶ Check the film check window to make sure no film is loaded into the camera.
❷ Slide the camera back lock in the direction indicated by the arrow.
❸ To open the back, slide the lock in the direction indicated by the arrow.

＊ Insert battery before loading film.
＊ Never open the camera back while film is in your camera.
＊ Never apply excessive force when opening or closing the camera back.



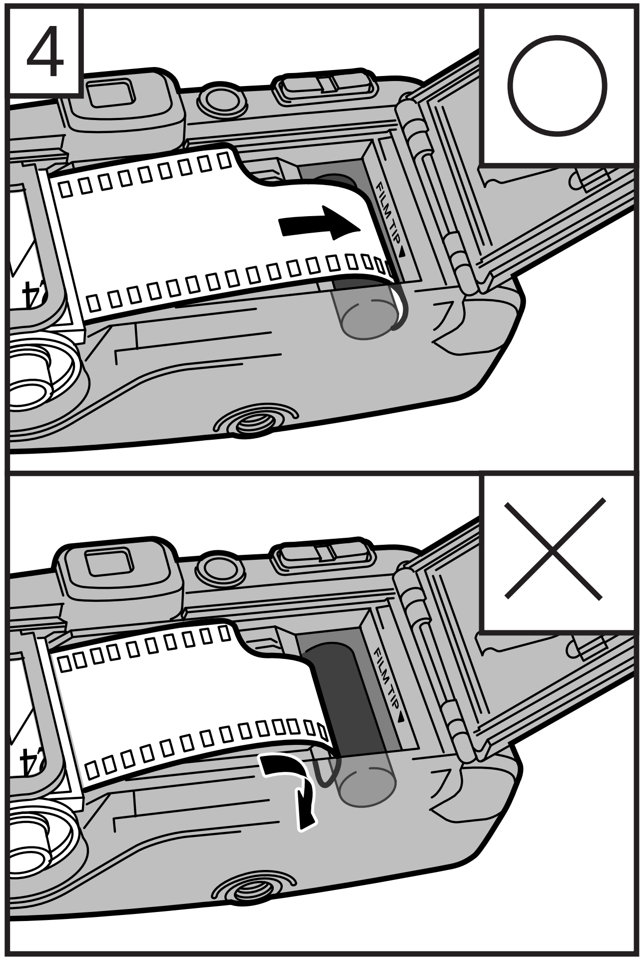
Insert the roll of film.



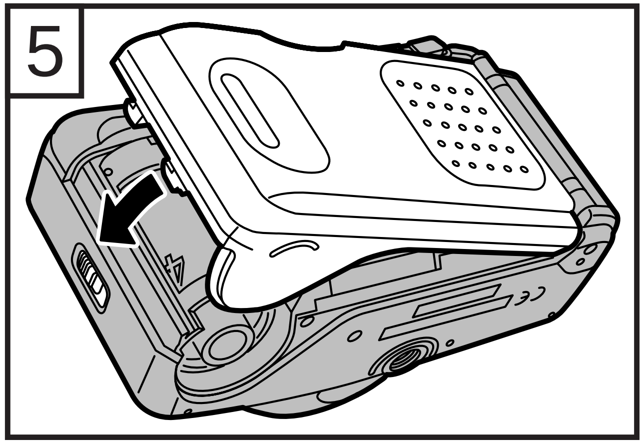
Ⓐ : FILM TIP mark

Pull the end of the film leader out as far as film tip mark.

* If you pull the film too far out of the canister, remove the film and adjust the length.



Make sure the end of the film is threaded onto the spool.

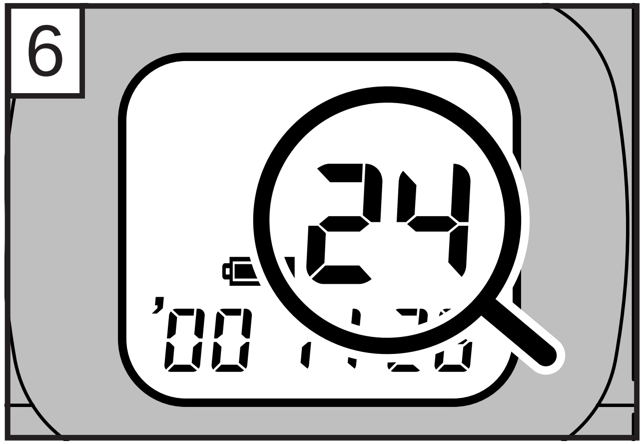


Close the camera back.

☞ The film advances automatically. Prewinding finishes in about 20 seconds (with 24-exposure film).

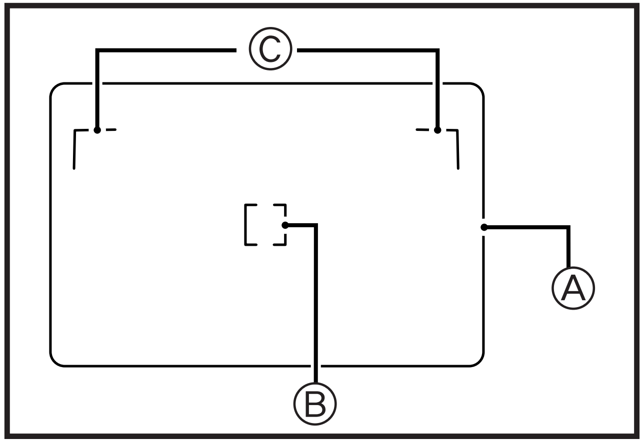
✻ The type, number of exposures, and speed of the film that has been loaded may be checked with the film check window.

This camera counts the frames starting at the highest number. Film is advanced one frame at a time inside the magazine.



Check the exposure counter (telling the number of exposures remaining).

If the number of exposures remaining is not displayed, the film is not advancing. Load the film again.



USING YOUR FINDER

The finder of your camera provides the control you need to take better, more interesting pictures. The finder includes:

Ⓐ : Framing Area

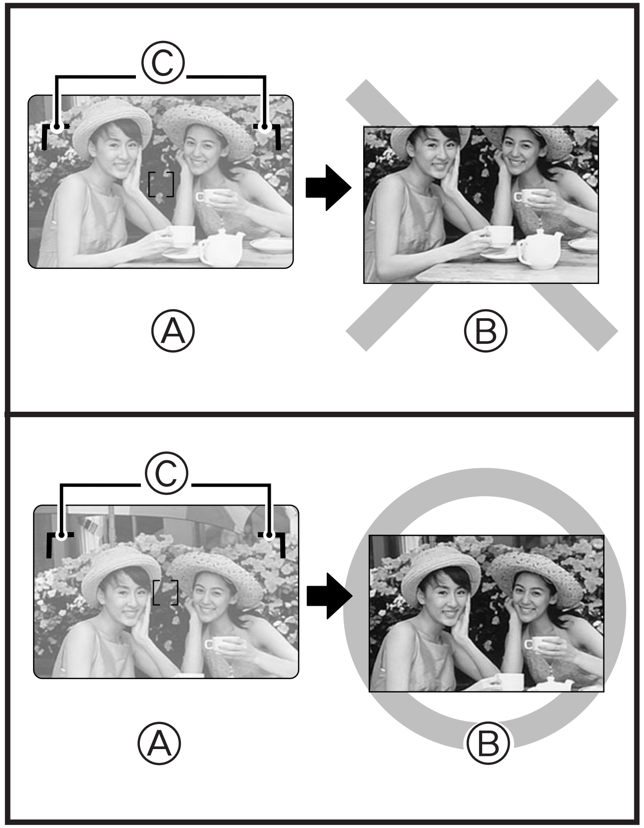
Compose your picture within these framelines.

Ⓑ : AF (auto-focus) frame

For sharp focus, position this frame over the main subject being photographed.

Ⓒ : Close-up Frame

Use this when photographing subjects closer than 1.5 m (4.9 ft.) from your camera. (→p.19)

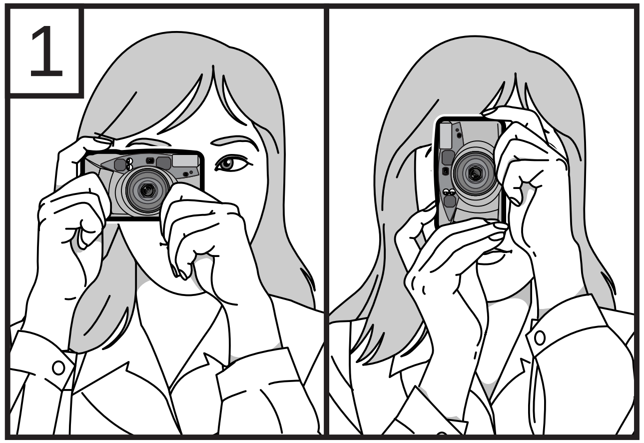


With the close-up picture

Ⓐ : Viewfinder
Ⓑ : Print finishing
Ⓒ : Parallax correction mark

When photographing a subject closer than about 1.5 m (4.9 ft.), the area shown in the diagram at left will be printed.

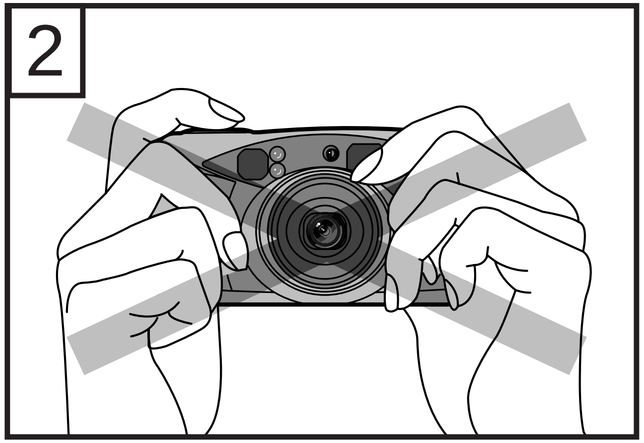
When taking close ups, the area seen through the viewfinder and the area actually photographed will be different. (Because the viewfinder and the lens are in different locations.) The parallax correction mark indicates the difference between the area seen through the viewfinder and the area actually photographed.



USING YOUR CAMERA

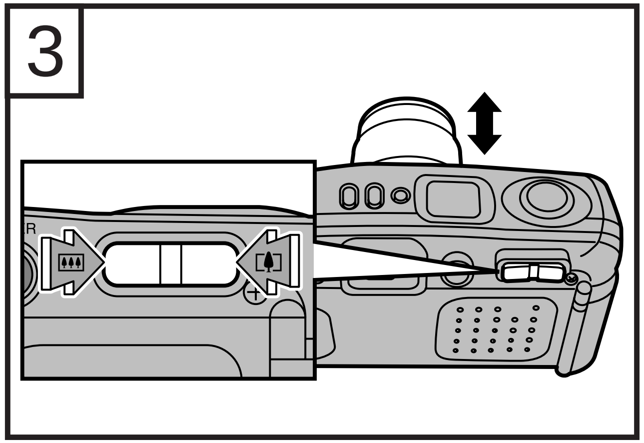
Turn the camera on and hold it firmly using both hands as shown in the illustration. When taking vertical pictures, hold the camera with the flash unit at the top.

Before taking important, once-in-a-lifetime pictures such as weddings or special events, take a few test shots to make sure your camera is functioning correctly. If you purchased your camera before going on a trip, shoot a roll or two to familiarize yourself with the operation of the camera. And don't forget to get an extra set of batteries. You should also keep this instruction book with you for handy reference.



Make sure that nothing is in front of the lens, the flash, the autofocus windows or the automatic exposure light sensor.

3



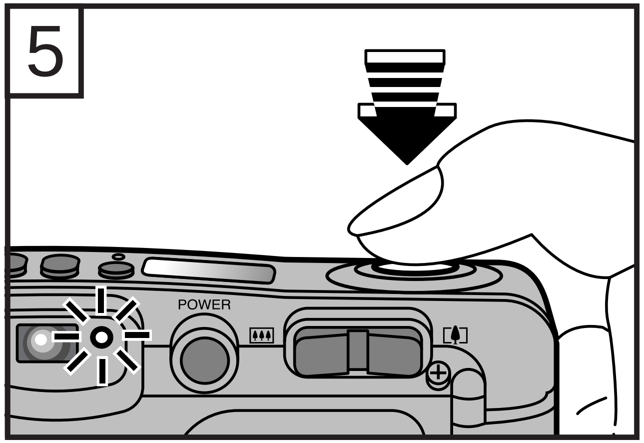
To use the zoom lens, press the [▲] mark until you get the composition you want in the finder. Pressing the ▲▲▲ mark will set the lens at the shorter focal lengths to obtain wide-angle effects.

＊ The focusing range for sharp pictures is from 0.9m (3.0ft.) to infinity.

4



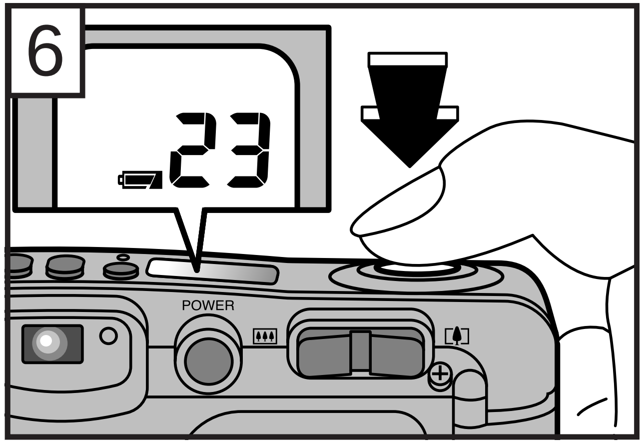
Aim at your subject so that it is covered by the whole AF frame.



Press down the shutter release halfway.

☞ Focusing is complete when the AF lamp (green) lights up.

＊ If you are closer than 90 cm (35 in.) to the subject, the AF lamp will start blinking to warn that the subject cannot be focused. Note that if you are closer than 35 cm (14 in.) to the subject, the AF lamp turns on but the subject cannot be focused.



Press the shutter button down completely.

☞ The film advances to the next frame.

☞ The number indicated by the exposure counter decreases by one each time a picture is taken.

＊ The AF lamp will go off once and reappear immediately after the shutter is released.

＊ During the charging time of the flash (when the alarm sign is blinking “ϟ”) the shutter cannot be released.

Under low light when flash must be used, the following chart gives you the effective flash range for correct exposures for films of various speeds. Note that high-speed film (ISO 400/800) extends your flash range significantly.

ZOOM DATE120

Effective flash range

Film speed	Wide angle (38 mm)	Telephoto (120 mm)
ISO 100	0.9 – 2.8 m 3.0 – 9.2 ft.	0.9 – 2.0 m 3.0 – 6.6 ft.
ISO 400	0.9 – 5.6 m 3.0 – 18.4 ft.	0.9 – 4.0 m 3.0 – 13.1 ft.
ISO 800	0.9 – 7.9 m 3.0 – 25.9 ft.	0.9 – 5.6 m 3.0 – 18.4 ft.
ISO 1600	0.9 – 11.2 m 3.0 – 36.7 ft.	0.9 – 8.0 m 3.0 – 26.2 ft.

(Using color negative film)

ZOOM DATE100

Effective flash range

Film speed	Wide angle (38 mm)	Telephoto (100 mm)
ISO 100	0.9 – 2.8 m 3.0 – 9.2 ft.	0.9 – 2.2 m 3.0 – 7.2 ft.
ISO 400	0.9 – 5.6 m 3.0 – 18.4 ft.	0.9 – 4.4 m 3.0 – 14.4 ft.
ISO 800	0.9 – 7.9 m 3.0 – 25.9 ft.	0.9 – 6.2 m 3.0 – 20.3 ft.
ISO 1600	0.9 – 11.2 m 3.0 – 36.7 ft.	0.9 – 8.8 m 3.0 – 28.9 ft.

(Using color negative film)

ZOOM DATE90

Effective flash range

Film speed	Wide angle (38 mm)	Telephoto (90 mm)
ISO 100	0.9 – 2.8 m 3.0 – 9.2 ft.	0.9 – 2.4 m 3.0 – 7.9 ft.
ISO 400	0.9 – 5.6 m 3.0 – 18.4 ft.	0.9 – 4.8 m 3.0 – 15.7 ft.
ISO 800	0.9 – 7.9 m 3.0 – 25.9 ft.	0.9 – 6.6 m 3.0 – 21.7 ft.
ISO 1600	0.9 – 11.2 m 3.0 – 36.7 ft.	0.9 – 9.5 m 3.0 – 31.2 ft.

(Using color negative film)

Under certain unusual conditions, the camera's autofocus system may not be able to function accurately. At these times, you should use the "Autofocus Lock" setting or the "Landscape Mode" setting (→p.25,34). Conditions which may require these settings include:

- A bright light source with the picture area such as the sun near your subject or a strong reflection from water or the windshield of a vehicle;
- A mirror or other strongly reflective surface near the center of your picture;
- Photographing black or very dark light absorbing subjects such as hair;
- Presence of flames, smoke or gaseous substances;
- Photographing through glass.

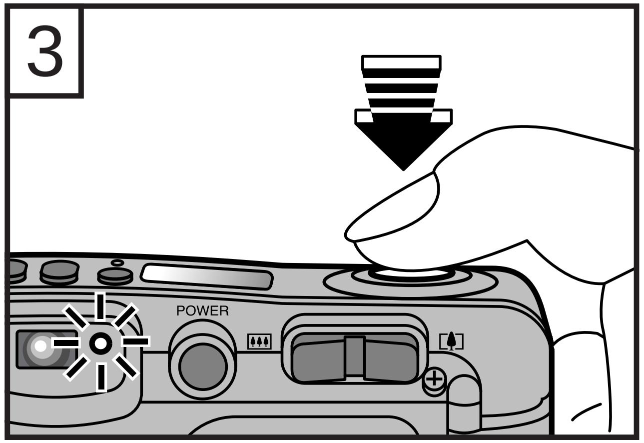
USING THE AUTO-FOCUS LOCK



In the composition shown at left, the AF frame is off the subject (in this case, the people). In this case the lens will not focus on the subject.



Move the camera to position the AF frame over the subject.



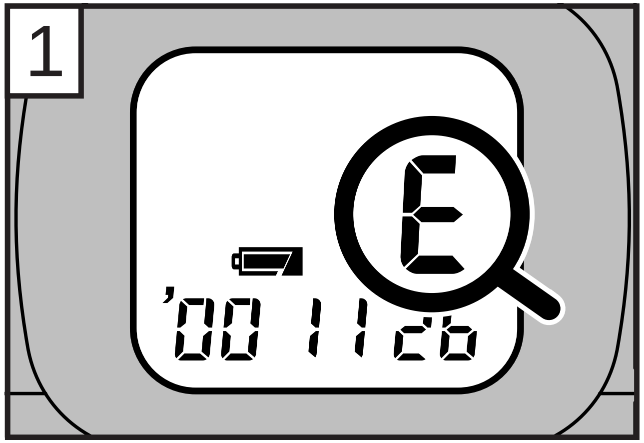
With the AF frame positioned over the subject, press down the shutter release button halfway to set the auto-focus lock.

☞ Check that the AF lamp (green) lights up.



While holding the shutter release button halfway down to keep the Auto-Focus lock on, move the camera back to the original position to recompose your picture, then press the shutter release button all the way down.

＊ The Auto-Focus lock operation can be repeated any number of times before the shutter trips.



UNLOADING THE FILM OR REMOVING FILM IN MID-ROLL

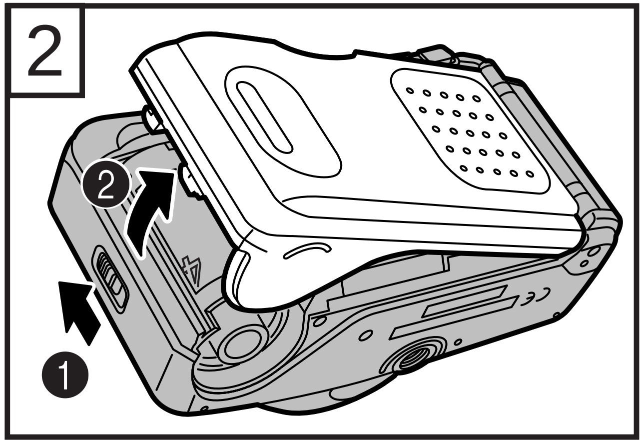
To Unload the Film

After the last frame on a roll of film has been exposed, the film is automatically rewound.

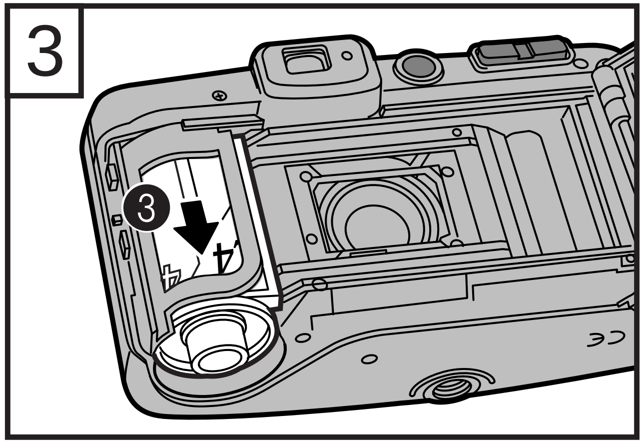
＊ If the camera back should accidentally open during shooting, do not remove the film. Instead, close the back and leave your film as is. When the back is closed, the film continues to rewind automatically: this protects all the frames on the roll from exposure to light except the last picture made.

Check to make sure the exposure counter shows “E”.

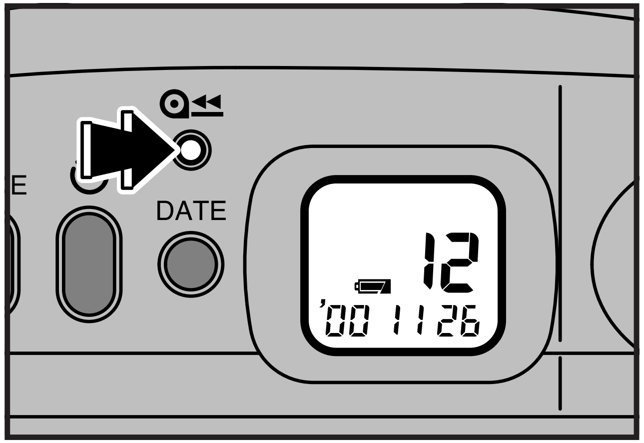
- To make sure that your roll of film which has been completely exposed is not accidentally exposed to light, make sure the exposure counter reads “E” before opening the camera’s back cover.
- If the film is removed before the exposure counter reads “E”, the next roll of film loaded will rewind immediately and the numerals on the exposure counter will blink.



❶ Slide the camera back lock in the direction indicated by the arrow.
❷ Open the camera back in the direction indicated by the arrow.
* Do not apply unnecessary force to the camera back.



Remove the film.



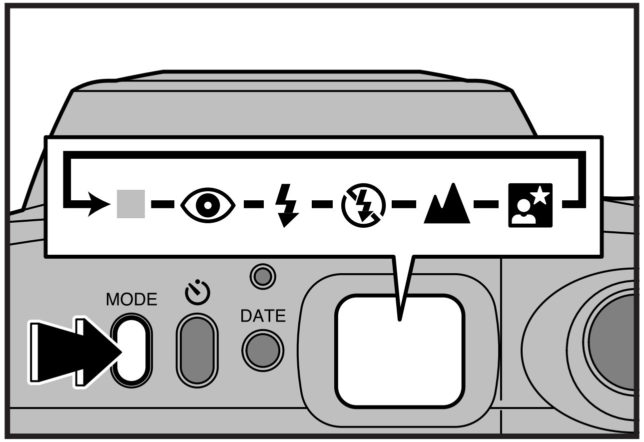
Removing film in mid-roll

Press the ⊙◂◂ button with the point of a pen or something similar, and remove the film.

☞ When rewinding is complete, the exposure counter will read " E ".

＊ Do not press the ⊙◂◂ button with any object that tapers to a sharp point.

Film cannot be reused once it has been rewound. Do not press the ⊙◂◂ button except when removing the film for developing.



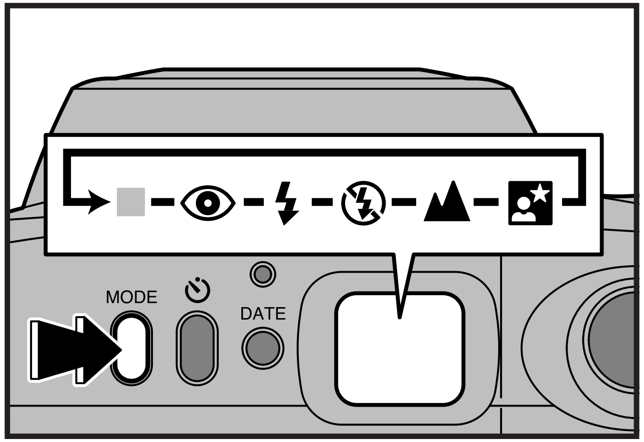
3. ADVANCED TECHNIQUES

SELECTING THE EXPOSURE MODE

Your camera offers six exposure modes to give you successful pictures under a wide range of photographic situations with various subjects. These modes are:

( ) Automatic flash for low light situations
( ) Red-eye reduction flash for more pleasing pictures of people
( ) Back light compensation flash mode
( ) Flash-off mode for natural light pictures
( ) Landscape mode for pictures of distant subjects
( ) Night portrait mode (slow sync flash) for fill-flash pictures

The Back Light, Flash-off, Landscape and Night Portrait modes are automatically cancelled when the power in the camera is turned off.



Each push of the MODE button changes the exposure mode in the following order:
☞ ■ → 👁 → ϟ → ⊘ → ▲ → ☆



(: no display) Automatic flash at low brightness mode

Used for general photography.

The flash lamp fires automatically when the brightness of the subject is lower than the predetermined level.



( ) Red-eye reduction flash mode

Reduce red-eye.

The red-eye reduction lamp turns on for about 1 second, then the camera takes a picture when the flash fires.

Once the red-eye reduction lamp has come on, the AF Lamp will remain lit until the picture is taken. Do not move the camera while the AF Lamp is lit.

Dealing with red-eye

When you photograph a person in dim light using flash, the pupil of the eye will sometimes appear red. Under low light, the pupils of the eye dilate for better vision. Red-eye is caused by light from the flash entering the dilated pupils and being reflected back to the lens. Red-eye reduction causes a preliminary flash to fire before the actual picture is taken. This causes the pupil to contract, reducing this reflection. When the actual flash exposure is made, the degree of reflection is minimized, thus reducing red-eye.

When using red-eye reduction mode

- Ask your subject to look directly into the camera.
- Approach as closely as possible to make your exposure.



(ϟ) Back light compensation flash mode

Use this mode to avoid deep shadows when photographing against the light such as a person standing in front of a window or under a tree with a very bright background. This produces more natural looking flash photographs.

Flash pictures taken even in a bright place.



(ⓕ) Flash off mode

Used when taking pictures with normal room lighting being utilized, or taking pictures of remote subjects beyond the range of the flash, for example, in a theater or a stadium.

The flash stops firing.

＊ When taking pictures under low light, use a tripod whenever possible to avoid unsharp pictures resulting from camera shake.



(▲) Landscape mode

Used when taking landscape pictures or photographing remote (night) scenes through window glass.

The lens is focused for the remote subjects. The flash does not fire under this mode.

＊ This mode is automatically cancelled after each shot.

＊ When taking pictures under low light, use a tripod whenever possible to avoid unsharp pictures resulting from camera shake.



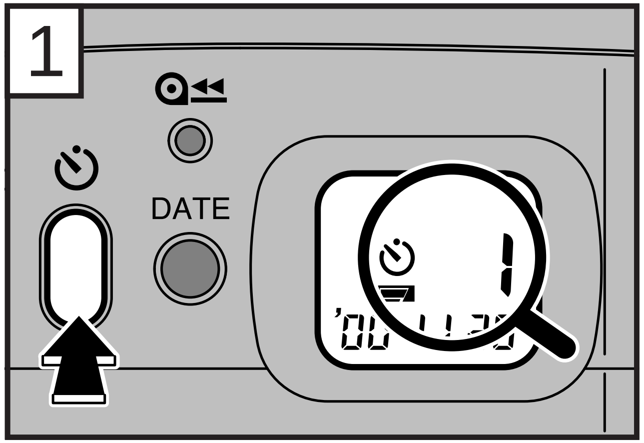
( ) Night portrait (slow sync) mode

Used when taking portraits to record the background in a night scene.

The slow shutter speed/red-eye reduction flash mode can be used to make sure that both people and nighttime background scenery are photographed clearly. (After the red-eye reduction lamp has blinked for about 1 seconds, the flash fires.)

* This mode is automatically cancelled per shot.

As a slow shutter speed is used with the night portrait mode, ensure that a tripod is used to prevent camera-shake. It is also important that the subject remains motionless during the exposure.



USING THE SELF-TIMER

Press the ⏲ button.

☞ The self-timer can be used to take up to 3 consecutive exposures.

☞ Each press of the ⏲ button changes the self-timer mode in the following order:

⏲1 → ⏲2 → ⏲3



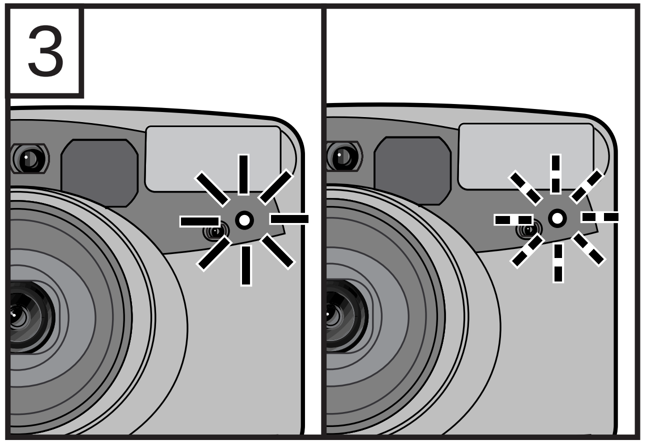
❶ Position the AF frame over the main subject, and then compose the image within the framing area.

❷ Press down the shutter release button.

☞ The camera focuses on the subject that the AF frame is positioned over, and then the self-timer starts.

☞ You can select the Auto-Focus lock mode also (→p.25).

When pressing the shutter release button, do not stand in front of the camera. This may cause a focusing error or underexposure.



After the self-timer lamp remains lit for about 7 seconds, it blinks for about 3 seconds, and then the shutter is released. When taking consecutive exposures, the shutter is released the set number of times at an interval of between 3 and 6 seconds.

- To cancel the self-timer mode after the self-timer has started, press the ⏲ button.
- The self-timer mode is automatically cancelled after a photo is taken or the camera is turned off.

TROUBLE SHOOTING

During operation

Problems	Possible Causes	Solutions	Page
The shutter release won’t trip.	① “ ” symbol is blinking. ② Power switch is not on. ③ “E” is lit on the exposure counter.	① Replace the battery with a new one. ② Press the POWER button. ③ Remove the film, and load an unexposed roll.	9 9 14
The numerals on the exposure counter blink.	● Did you remove film without rewinding it after you began photographing?	● Remove the battery momentarily, then reload it.	27
After loading the film it rewound immediately.			
The film rewound during photographing.	● Did you move the camera back lock during photographing or prewinding?	● Be sure not to move the camera back lock while film is loaded in the camera.	27
After loading the film and closing the back cover, the exposure counter does not advance.	● Did you load the film properly?	● Load the film correctly.	14
The self-timer cannot be set.	● Is the date correction mode on?	● Cancel the date correction mode.	10

Printed pictures

Problems	Possible Causes	Solutions	Page
Picture is not sharp.	① Was your finger on the AF windows when shooting? ② Did you aim the subject properly? ③ Is the lens dirty? ④ Is the camera moving? ⑤ You selected ▲ mode when shooting at a close distance.	① When shooting a picture, hold your camera correctly so that your finger is not on the AF windows. ② Compose the picture in the AF frame and shoot, or shoot using AF Lock. ③ Clean the lens. ④ Hold the camera firmly and press the shutter release button gently. Use a tripod for slow shutter speeds. ⑤ Select a mode other than ▲ mode.	20 25 40 20 30
Picture is too dark.	① Subject was too far from the camera for flash photography in a dark place. ② Was your finger over the flash? ③ Was the subject backlit from being taken next to a window, etc.?	① Shoot within specified coverage distance of electronic flash. ② Do not cover the flash with your finger. ③ Turn on the back light compensation flash mode and press the shutter release button.	23 20 33
Printed date/time is incorrect.	● You didn't set correct date and time after replacing battery.	● Set date and time after replacing battery.	10
The date is not printed on the front.	① Wasn't "- - - - - -" selected before taking pictures? ② Is there something light-colored (white, yellow, orange) where the date appears?	① Select a date mode other than "- - - - - -" before taking pictures. ② Try to arrange that there is nothing light-colored where the date appears.	13 12

COMMON SENSE CAMERA CARE

1. Although your camera is designed for many years of service, it is a precision instrument and requires thoughtful handling. In particular, avoid exposing it to shock, moisture or physical abuse such as dropping it on the floor.
   - ① If you use your camera at the beach or in a light rain, protect it from moisture. Do not let your camera get wet. Be particularly careful to avoid sand and salt spray at the beach.
   - ② Dropping your camera or letting it strike a hard surface could result in damage even though the camera was in a case. Never subject the camera to vibration such as in the trunk of a car. Never keep your camera in the trunk or the glove compartment of a car: the heat build-up can damage it.
2. Your camera is computer-controlled so it seldom, if ever, will operate erroneously. If you should experience erroneous operation, remove the battery and then reload it.
3. If you will not be using your camera for some time, store it where it will be safe from heat, moisture, dust and harmful gases such as napthalene (moth balls and moth flakes).
4. Never store the camera in a closed automobile for an extended period.
5. It is recommended that undeveloped film and cameras containing film be carried as hand luggage when flying. If included in checked-in baggage, X-ray inspections may cause overprinting or other effects.
6. Remove soil and dust from the lens, the AF window and the finder with an air blower and by wiping lightly with a piece of soft cloth. If that is not enough, wipe off gently with Lens Cleaning Paper, moistened slightly with Lens Cleaning Liquid. Do not use organic solvents such as alcohol and benzene.
7. Dust and debris in the film compartment can scratch the film. Use a blower brush to clean it.
8. Load and remove film away from direct sunlight.
9. The operating temperature range of the camera is from –10°C to +40°C.
10. Since the performance of the battery will drop in cold weather, warm the battery by placing it inside your garments, etc. before use. The performance of a battery whose performance has temporarily dropped can be restored by returning the battery to normal temperature.

With a few common sense precautions, your camera will give you years of faithful service, great pleasure and wonderful pictures.

ZOOM DATE120

SPECIFICATIONS

- **Film**

  135 (35 mm) DX roll film
- **Picture Size**

  24 mm × 36 mm
- **Lens**

  Fujinon lens, 5 components, 5 elements, f=38 – 120 mm 1:6.7 – 1:12.7
- **Viewfinder**

  Real image zoom finder, 0.41 – 1.13 × magnification, with AF frame, parallax correction mark, AF Lamp
- **Focusing**

  Active type auto focus: 0.9 m/3.0 ft. – ∞, with AF lock, landscape mode (long distance lens position setting, flash off setting), AF lamp (on: range OK, blinking: over range alarm)
- **Shutter Release**

  Programmed electronic shutter release, 1/2 – 1/250 sec. shutter speeds
- **Exposure Control**

  Automatic
  Interlocking range (ISO 100), EV (wide angle): 11.1 (*10.0) – 16.2, EV (telephoto): 14.0 (*11.8) – 19.8
  (* = values for the flash off mode)
- **Film Speed Setting**

  Automatic (DX roll film) for speeds from ISO 50 – 3200
- **Film Loading**

  Sure-loading system (Easy loading and pre-winding)
- **Film Advance**

  Automatic (motorized), film prewind system, wind and rewind system, provision for mid-roll rewinding
- **Flash**

  Zoom flash, 5 seconds recycle time, automatic flash at low brightness mode, red-eye reduction flash mode, fill-in flash mode, flash off mode, night portrait (slow sync) mode
- **Self-Timer**

  Electronically controlled, up to 3 consecutive exposures approximately 10 second delay, can be stopped mid-run, self-timer on lamp
- **Liquid Crystal Display**

  Exposure counter, exposure mode index, self-timer mode sign, date sign, battery capacity sign, flash charging sign
- **Power Supply**

  One CR123A/DL 123A lithium battery or comparable battery

● **Others**

Tripod socket

● **Dimensions & Weight**

121.5 × 69.0 × 57.5 mm/4.8 × 2.7 × 2.3 in. (main unit),
230 g/8.1 oz. (without battery)

＊ Specifications are subject to change without notice.

ZOOM DATE100

SPECIFICATIONS

- **Film**
  135 (35 mm) DX roll film
- **Picture Size**
  24 mm × 36 mm
- **Lens**
  Fujinon lens, 5 components, 5 elements, f=38 – 100 mm 1:6.7 – 1:11.5
- **Viewfinder**
  Real image zoom finder, 0.41 – 1.07 × magnification, with AF frame, parallax correction mark, AF Lamp
- **Focusing**
  Active type auto focus: 0.9 m/3.0 ft. – ∞, with AF lock, landscape mode (long distance lens position setting, flash off setting), AF lamp (on: range OK, blinking: over range alarm)
- **Shutter Release**
  Programmed electronic shutter release, 1/2 – 1/250 sec. shutter speeds
- **Exposure Control**
  Automatic
  Interlocking range (ISO 100), EV (wide angle): 11.1 (*10.0) – 16.2, EV (telephoto): 14.0 (*11.8) – 19.8
  (* = values for the flash off mode)
- **Film Speed Setting**
  Automatic (DX roll film) for speeds from ISO 50 – 3200
- **Film Loading**
  Sure-loading system (Easy loading and pre-winding)
- **Film Advance**
  Automatic (motorized), film prewind system, wind and rewind system, provision for mid-roll rewinding
- **Flash**
  Zoom flash, 5 seconds recycle time, automatic flash at low brightness mode, red-eye reduction flash mode, fill-in flash mode, flash off mode, night portrait (slow sync) mode
- **Self-Timer**
  Electronically controlled, up to 3 consecutive exposures approximately 10 second delay, can be stopped mid-run, self-timer on lamp
- **Liquid Crystal Display**
  Exposure counter, exposure mode index, self-timer mode sign, date sign, battery capacity sign, flash charging sign
- **Power Supply**
  One CR123A/DL 123A lithium battery or comparable battery

● **Others**

Tripod socket

● **Dimensions & Weight**

121.5 × 69.0 × 57.5 mm/4.8 × 2.7 × 2.3 in. (main unit),
230 g/8.1 oz. (without battery)

✻ Specifications are subject to change without notice.

ZOOM DATE90

SPECIFICATIONS

● **Film**

135 (35 mm) DX roll film

● **Picture Size**

24 mm × 36 mm

● **Lens**

Fujinon lens, 5 components, 5 elements, f=38 – 90 mm 1:6.7 – 1:9.8

● **Viewfinder**

Real image zoom finder, 0.41 – 0.96 × magnification, with AF frame, parallax correction mark, AF Lamp

● **Focusing**

Active type auto focus: 0.9 m/3.0 ft. – ∞, with AF lock, landscape mode (long distance lens position setting, flash off setting), AF lamp (on: range OK, blinking: over range alarm)

● **Shutter Release**

Programmed electronic shutter release, 1/2 – 1/250 sec. shutter speeds

● **Exposure Control**

Automatic
Interlocking range (ISO 100), EV (wide angle): 11.1 (*10.0) – 16.2, EV (telephoto): 14.0 (*11.8) – 19.8
(* = values for the flash off mode)

● **Film Speed Setting**

Automatic (DX roll film) for speeds from ISO 50 – 3200

● **Film Loading**

Sure-loading system (Easy loading and pre-winding)

● **Film Advance**

Automatic (motorized), film prewind system, wind and rewind system, provision for mid-roll rewinding

● **Flash**

Zoom flash, 5 seconds recycle time, automatic flash at low brightness mode, red-eye reduction flash mode, fill-in flash mode, flash off mode, night portrait (slow sync) mode

● **Self-Timer**

Electronically controlled, up to 3 consecutive exposures approximately 10 second delay, can be stopped mid-run, self-timer on lamp

● **Liquid Crystal Display**

Exposure counter, exposure mode index, self-timer mode sign, date sign, battery capacity sign, flash charging sign

● **Power Supply**

One CR123A/DL 123A lithium battery or comparable battery

- **Others**
  Tripod socket
- **Dimensions & Weight**
  121.5 × 69.0 × 57.5 mm/4.8 × 2.7 × 2.3 in. (main unit),
  230 g/8.1 oz. (without battery)

＊ Specifications are subject to change without notice.

SPECIFICATIONS

	ZOOM DATE120	ZOOM DATE100	ZOOM DATE90
Film	135 (35mm) DX roll film		
Picture Size	24mm × 36mm		
Lens	Fujinon lens, 5 components, 5 elements,		
	f=38-120mm 1:6.7-1:12.7	f=38-100mm 1:6.7-1:11.5	f=38-90mm 1:6.7-1:9.8
Viewfinder	Real image zoom finder,		
	0.41-1.13 × magnification	0.41-1.07 × magnification	0.41-0.96 × magnification
	with AF frame, parallax correction mark, AF lamp		
Focusing	Active type auto focus:0.9m/3.0ft. -∞, with AF lock, landscape mode (long distance lens position setting, flash off setting), AF lamp (on:range OK, blinking: over range alarm)		
Shutter Release	Programmed electronic shutter release, 1/2-1/250 sec. shutter speeds		
Exposure Control	Automatic, Interlocking range(ISO 100), EV(wide angle):11.1(∗10.0)-16.2, EV(telephoto):14.0(∗11.8)-19.8 (∗=values for the flash off mode)		
Film Speed Setting	Automatic (DX roll film) for speeds from ISO 50-3200		
Film Loading	Sure-loading system (Easy loading and pre-winding)		
Film Advance	Automatic (motorised), film prewind system, wind and rewind system, provision for mid-roll rewinding		
Flash	Zoom flash, 5 seconds recycle time, automatic flash at low brightness mode, red-eye reduction flash mode, fill-in flash mode, flash off mode, night portrait (slow sync)mode		

	ZOOM DATE120			ZOOM DATE100			ZOOM DATE90		
Flash Range	Film speed	Wide angle (38mm)	Telephoto (120mm)	Film speed	Wide angle (38mm)	Telephoto (100mm)	Film speed	Wide angle (38mm)	Telephoto (90mm)
	ISO100	0.9-2.8 m 3.0-9.2 ft.	0.9-2.0 m 3.0-6.6 ft.	ISO100	0.9-2.8 m 3.0-9.2 ft.	0.9-2.2 m 3.0-7.2 ft.	ISO100	0.9-2.8 m 3.0-9.2 ft.	0.9-2.4 m 3.0-7.9 ft.
	ISO400	0.9-5.6 m 3.0-18.4 ft.	0.9-4.0 m 3.0-13.1 ft.	ISO400	0.9-5.6 m 3.0-18.4 ft.	0.9-4.4 m 3.0-14.4 ft.	ISO400	0.9-5.6 m 3.0-18.4 ft.	0.9-4.8 m 3.0-15.7 ft.
	ISO800	0.9-7.9 m 3.0-25.9 ft.	0.9-5.6 m 3.0-18.4 ft.	ISO800	0.9-7.9 m 3.0-25.9 ft.	0.9-6.2 m 3.0-20.3 ft.	ISO800	0.9-7.9 m 3.0-25.9 ft.	0.9-6.6 m 3.0-21.7 ft.
	ISO1600	0.9-11.2 m 3.0-36.7 ft.	0.9-8.0 m 3.0-26.2 ft.	ISO1600	0.9-11.2 m 3.0-36.7 ft.	0.9-8.8 m 3.0-28.9 ft.	ISO1600	0.9-11.2 m 3.0-36.7 ft.	0.9-9.5 m 3.0-31.2 ft.
Self-Timer	Electronically controlled, up to 3 consecutive exposures approximately 10 second delay, can be stopped mid-run, self-timer on lamp								
Liquid Crystal Display	Exposure counter, exposure mode index, self-timer mode sign, date sign, battery capacity sign, flash charging sign								
Power Supply	One CR123A/DL 123A lithium battery or comparable battery								
Others	Tripod socket								
Dimensions & Weight	121.5 × 69.0 × 57.5mm/4.8 × 2.7 × 2.3in. (main unit) 230g/8.1oz. (without battery)								

＊ Specifications are subject to change without notice.

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